



1999 Toxics Release Inventory

OHIO

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	103,317,360	150,568,758	253,886,118
Air Emissions	62,985,422	85,892,956	148,878,378
Surface Water Discharges	6,776,057	200,900	6,976,957
Underground Injection Class I Wells	14,285,086	13,360,000	27,645,086
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	1,994	38,573,000	38,574,994
Other On-site Land Releases	19,268,801	12,541,902	31,810,703
Off-site Releases (Transfers Off-site to Disposal)*	36,891,088	12,450,950	49,342,038
Total On- and Off-site Releases	140,208,448	163,019,708	303,228,156
Recycled On-site	221,607,081	34,087,331	255,694,412
Recycled Off-site	179,252,320	3,423,361	182,675,681
Energy Recovery On-site	139,872,485	0	139,872,485
Energy Recovery Off-site	32,105,026	28,160,685	60,265,711
Treated On-site	152,530,203	111,298,784	263,828,987
Treated Off-site**	34,641,356	2,794,063	37,435,419
Quantity Released On- and Off-site***	148,856,278	163,304,695	312,160,973
Total Production-related Waste Managed	908,864,749	343,068,919	1,251,933,668
Total Non-production-related Waste Managed	1,072,725	16,610	1,089,335

Transfers Off-site for Further Waste Management/Disposal

Recycling	178,972,268	3,428,694	182,400,962
Energy Recovery	31,220,833	28,155,027	59,375,860
Treatment	13,464,889	2,597,170	16,062,059
Publicly Owned Treatment Works (POTWs)	19,720,830	209,718	19,930,548
Metals and Metal Compounds*	245,570	834	246,404
Non-metal TRI Chemicals**	19,475,260	208,884	19,684,144
Other Off-site Transfers****	47,672	0	47,672
Off-site Transfers to Disposal (not including metals to POTWs)	47,986,155	12,664,195	60,650,350
Total Transfers Off-site for Further Waste Management/Disposal	291,412,647	47,054,804	338,467,451

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

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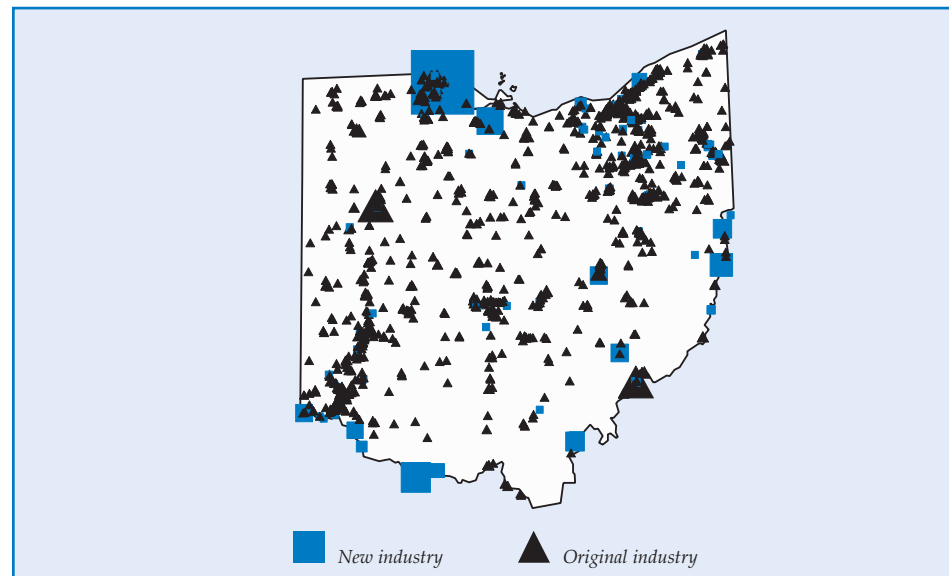
To obtain TRI data use

assistance, call TRI User

Support Service (TRI-US):

(202) 260-1531

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The largest marker in the state map represents the largest facility for on-site releases in the state of Ohio. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	11,256,654
Square Miles	40,953
Total Facilities	1,642
Total Forms	6,118
Form As	894

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	2	6	2
Pounds	140,208,448	163,019,708	303,228,156
National Rank for Total On-site Releases**			
Rank	3	6	7
Pounds	103,317,360	150,568,758	253,886,118
National Rank for Total Releases within State***			
Rank	2	6	5
Pounds	181,594,608	163,086,283	344,680,891
National Rank for Production-related Waste Managed			
Rank	5	5	5
Pounds	908,864,749	343,068,919	1,251,933,668

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Manganese compounds	564,568	315,336	250	11,340,210	5,745,115	17,965,479	4,276,543	4,916,120	900,348
--	Zinc compounds	337,219	14,563	0	4,412,740	9,168,558	13,933,080	25,474,847	7,812,959	3,990,875
7664-41-7	Ammonia	10,718,674	355,300	1,723,000	64,416	79,698	12,941,088	469,234	140,111	7,958
--	Nitrate compounds	1,796,274	5,892,162	252,000	213	151,776	8,092,425	119,567	119,082	32,694
75-05-8	Acetonitrile	12,027	0	7,444,000	0	0	7,456,027	0	0	0
7440-47-3	Chromium	53,314	1,025	0	7,945	6,915,623	6,977,907	585,764	7,015,882	18,742
463-58-1	Carbonyl sulfide	5,603,830	0	0	0	0	5,603,830	0	0	0
1330-20-7	Xylene (mixed isomers)	4,068,450	67	0	250	21,474	4,090,241	9,000	13,737	7,737
--	Glycol ethers	3,863,511	16	0	650	57,995	3,922,172	17,035	53,757	4,238
67-56-1	Methanol	3,693,099	9,611	89,000	0	4,714	3,796,424	47,828	4,476	260

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	64,513,879	1	0	0	0	64,513,880	0	0	0
7440-66-6	Zinc (fume or dust)	1,315	150	0	33,000,000	55,505	33,056,970	250	55,255	250
7664-93-9	Sulfuric acid	15,061,670	1	0	0	10	15,061,681	0	5	5
7664-39-3	Hydrogen fluoride	5,603,278	2	4,100,000	0	28,646	9,731,926	0	10,731	17,915
--	Barium compounds	26,192	49,068	0	5,312,758	1,663,528	7,051,546	109,424	1,621,869	69,922
7697-37-2	Nitric acid	247	0	6,200,000	0	26,876	6,227,123	10,041	5,812	26,871
--	Zinc compounds	22,749	32,364	850,000	1,186,973	3,556,312	5,648,398	118,856	3,510,974	62,003
--	Nickel compounds	12,416	14,032	140,000	1,003,377	2,690,873	3,860,698	2,842	2,653,182	43,386
--	Chromium compounds	11,944	3,638	720,000	1,037,077	1,500,207	3,272,866	24,162	1,469,825	48,863
7439-92-1	Lead	75	0	13,000	2,400,000	118,616	2,531,691	158,149	35,735	82,881

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



1999 Toxics Release Inventory

OHIO

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
BP Chemicals Inc., Lima, Allen	379,189	0	14,272,051	0	0	0	14,651,240	550	720
Eramet Marietta Inc., Marietta, Washington	4,242,671	578,000	0	0	0	9,664,800	14,485,471	0	52,500
LTV Steel Co. Inc. - Cleveland Works, Cleveland, Cuyahoga	63,660	102,560	0	0	0	4,889,350	5,055,570	1,041,230	42,530
Millennium Inorganic Chemicals Inc. - Plant 2, Ashtabula, Ashtabula	4,312,591	0	0	0	0	0	4,312,591	0	0
AK Steel Corp. Coshocton Works, Coshocton, Coshocton	26,620	4,001,090	0	0	0	0	4,027,710	327,800	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,640,795	59,920	0	0	0	0	3,700,715	0	0
GMC Powertrain Defiance, Defiance, Defiance	788,170	14,478	0	0	0	1,981,100	2,783,748	633	10
Astro Cos. Inc., Struthers, Mahoning	1,846,602	0	0	0	0	0	1,846,602	500	0
Owens-Corning, Newark, Licking	1,705,391	0	0	0	0	87,449	1,792,840	215	0
Ormet Primary Aluminum Corp., Hannibal, Monroe	1,480,900	0	0	0	0	0	1,480,900	367,000	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Envirosafe Services of Ohio Inc., Oregon, Lucas	960	0	0	0	38,573,000	0	38,573,960	1,025	1,255
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	12,825,329	10,431	0	0	0	2,646,000	15,481,760	0	2
Vickery Environmental Inc., Vickery, Sandusky	190	0	13,360,000	0	0	0	13,360,190	0	55,180
American Electric Power Cardinal Plant, Brilliant, Jefferson	9,251,990	36,402	0	0	0	1,502,250	10,790,642	0	5,685
Kyger Creek Station, Gallipolis, Gallia	7,217,185	7,810	0	0	0	899,100	8,124,095	10	0
Firstenergy W.H. Sammis Plant, Stratton, Jefferson	7,889,882	12,287	0	0	0	33	7,902,202	2,280,200	0
American Electric Power Muskingum River Plant, Beverly, Washington	6,299,998	15,159	0	0	0	916,700	7,231,857	3,140	6
American Electric Power Conesville Plant, Conesville, Coshocton	5,971,741	23,366	0	0	0	1,130,420	7,125,527	88,927	0
CG&E Miami Fort Station, North Bend, Hamilton	6,526,448	12,741	0	0	0	411,035	6,950,224	1,216	3,517
CG&E Beckjord Station, New Richmond, Clermont	5,875,820	6,716	0	0	0	579,045	6,461,581	90,701	10,990

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



1999 Toxics Release Inventory

OHIO

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
BP Chemicals Inc., Lima, Allen	3,434,000	0	6,122,550	0	3,477,000	29,846	14,665,925	27,729,321	310
Eramet Marietta Inc., Marietta, Washington	0	46,300	0	0	17,000	0	14,537,971	14,601,271	0
American Steel Foundries Alliance Plant, Alliance, Stark	4,000,000	0	0	0	0	0	6,285,000	10,285,000	0
LTV Steel Co. Inc. - Cleveland Works, Cleveland, Cuyahoga	0	0	0	0	0	3,000	6,140,400	6,143,400	0
AK Steel Corp. Coshocton Works, Coshocton, Coshocton	0	0	0	0	8,000,000	127,000	4,357,210	12,484,210	0
Timken Co. - Faircrest Steel Plant, Canton, Stark	312,090	0	0	0	0	0	4,339,000	4,651,090	7
Millennium Inorganic Chemicals Inc. - Plant 2, Ashtabula, Ashtabula	0	0	0	0	3,401,300	0	4,312,635	7,713,935	0
Wheeling-Pittsburgh Steel Corp. Mingo Junction, Mingo Junction, Jefferson	0	0	0	0	0	0	3,974,653	3,974,653	0
PCS Nitrogen of Ohio L.P., Lima, Allen	3,167,500	0	0	0	2,922,000	0	3,698,710	9,788,210	200
CSC Ltd., Warren, Trumbull	0	0	0	0	0	0	3,402,778	3,402,778	9

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Envirosafe Services of Ohio Inc., Oregon, Lucas	0	0	0	0	0	0	38,573,000	38,573,000	0
Dayton Power & Light Co., J.M Stuart Station, Manchester, Adams	0	7	0	0	6,838,110	0	15,486,500	22,324,617	0
Vickery Environmental Inc., Vickery, Sandusky	0	0	0	0	0	1,919	13,365,000	13,366,919	0
American Electric Power Cardinal Plant, Brilliant, Jefferson	0	112,600	0	0	1,700,000	0	10,797,300	12,609,900	0
Firstenergy W.H. Sammis Plant, Stratton, Jefferson	0	0	0	0	0	0	10,167,000	10,167,000	15
Kyger Creek Station, Gallipolis, Gallia	0	0	0	0	2,200,000	0	8,118,000	10,318,000	0
Envirite of Ohio Inc., Canton, Stark	0	74,209	0	0	1,100,000	0	8,021,000	9,195,209	0
American Electric Power Muskingum River Plant, Beverly, Washington	0	1,423,000	0	0	890,000	0	7,235,400	9,548,400	0
American Electric Power Conesville Plant, Conesville, Coshocton	0	77,400	0	0	6,500,000	0	7,220,200	13,797,600	0
CG&E Miami Fort Station, North Bend, Hamilton	0	0	0	0	1,192,000	0	6,946,000	8,138,000	1

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.